

Abstract

Robust CAS detection method

The problem of talk-off and talk-on errors occurring when a common detection method for predefined signaling signal like a calling alerting signal CAS is used.

The present invention is based on the application of the Welch method to obtain an averaged spectral function of the analog telecommunications signal sent to a telecommunications device. Out of this function is then differentiated its value at the typical frequencies where the predefined signaling signal over the analog telecommunications signal shall be expected. Also a value for the present noise (speech) at the analog telecommunications signal will be extracted out of that averaged spectral function and then subtracted from the values at the typical frequencies. In that way, it can be very accurately differentiated between any noise and a predefined signaling signal.

A predefined signaling signal detector 1 working after the present method of detection will have a very high resolution, therefore avoiding almost completely talk-off and talk-on errors.

(Figure 1)